

Use Attainability Analysis

for

WBID 0140 Young's Creek

Submitted by  
SES, Inc.

To  
Missouri Department of Natural Resources  
Water Protection Program

Date Received: June 3, 2007

**Field Data Sheets for Recreation Use Stream Surveys**  
**Data Sheet A - Water Body Identification**  
(For water body being surveyed)

**Water Body Information**

Water Body Name: Youngs Creek	WBID: 140
8 digit HUC code: 7110006	County: Monroe
Upstream Legal Description 52n 10w sec10	
Downstream Legal Description 53n 8w sec30	
Number of Sites Evaluated 6	
List all site numbers, listed upstream to downstream 1,2,3,4,5,6	

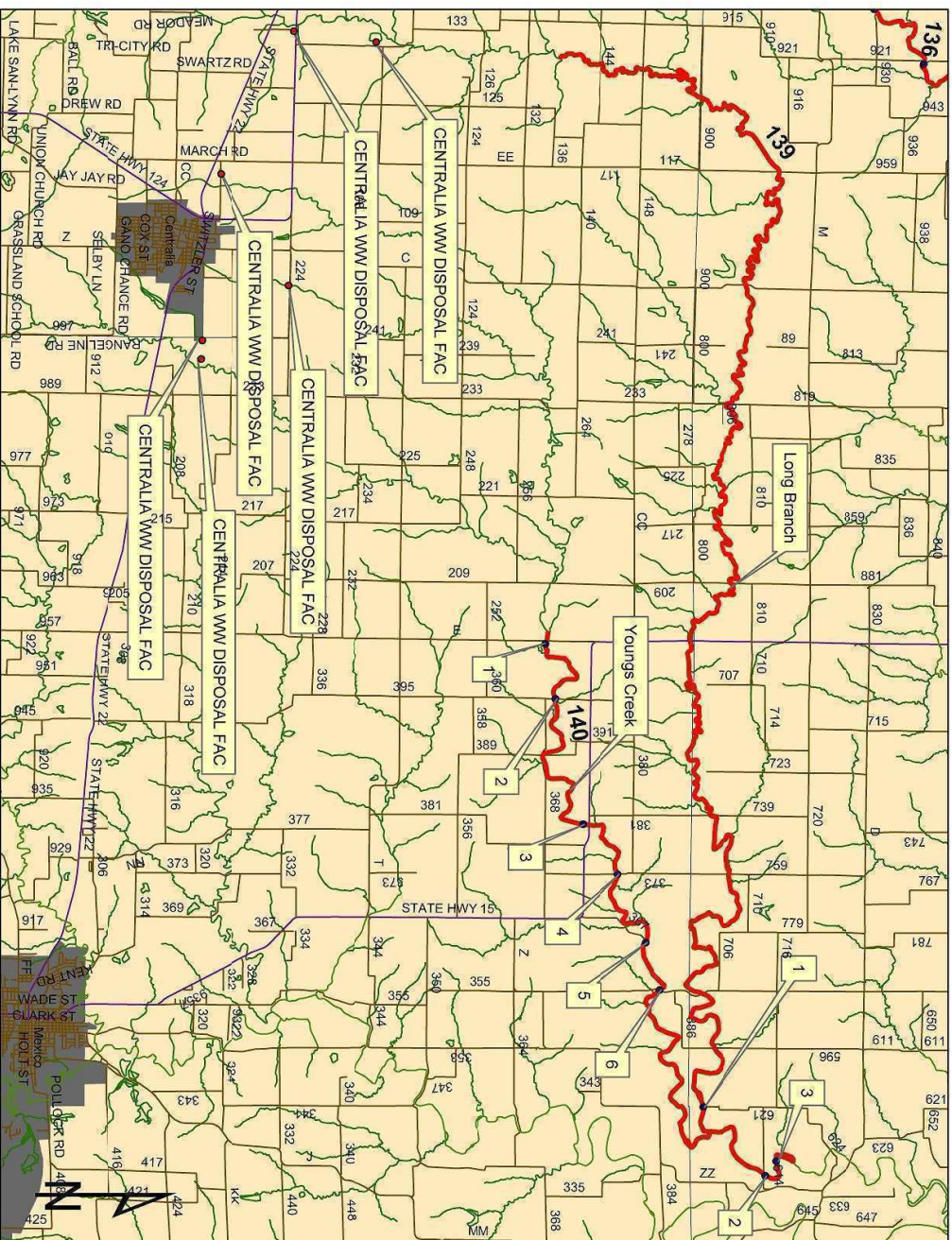
**Discharger Facility Information**

Discharger Facility Name(s): Centralia WW Disposal Facility
Discharger Permit Number(s): MO 0028789

**UAA Surveyor**

Name of Surveyor: Gelisa Gould	Telephone Number: 913-307-0054
Organization/Employer: SES, Inc.	
Position: Field Team Leader	

Signed: \_\_\_\_\_ Date: \_\_\_\_\_



**Field Data Sheets for Recreational Use Stream Surveys**  
**Data Sheet B - Site Characterization**  
**(must be completed for each site)**

WBID 140  
 Site # 1

Date and Time: 5-29-07 3:45pm

Current Weather Conditions

partly cloudy

Weather Conditions for Past 10 days:

Drought Conditions? No

Site Location (e.g. road crossing)

crossing at E rd.

GPS Mark:

24

Upstream Photo

2

Downstream Photo

1

**Uses Observed (Uses actually observed at time of survey) Circle**

Swimming	Skin Diving	SCUBA diving	Tubing
Water Skiing	Wind Surfing	Kayaking	Boating
Wading	Rafting	Hunting	Trapping
Fishing	<b>None of the Above</b>	Other	

**Surrounding Conditions**

City/county parks	Playgrounds	MDC conservation lands	Urban areas
Campgrounds	Boating accesses	State parks	National Forests
Nature trails	Stairs/walkway	No trespass sign	Fence
Steep slopes	<b>None of the Above</b>	Other	

**Indications of Human Use**

<b>Roads</b>	Rope swings	Foot paths/prints	Dock/platform
Livestock Watering	RV/ATV Tracks	Camping Sites	Fire pit/ring
NPDES Discharge	Fishing Tackle	Other:	

WBID # 140 Site # 1  
Mark # 24 Dissolved Oxygen (ppm) 9.3  
Upstream Views Physical Dimensions: Is there any water present at this view?

y  
If so, is there an obvious current?  
y

Select one of the following channel features:

	% of Channel Feature				
Riffle	15				
Run	0				
Pool	85				

Downstream View's Physical Dimensions: Is there any water present at this view?

If so, is there an obvious current?


Substrate:

% Cobble 35	% Gravel 32.5	% Sand	32.5
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% Mud/Clay	% Bedrock
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Aquatic Vegetation: (Note amount of vegetation or algal growth at the assessment site)

algal growth 20% on bottom; plant growth in stream
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### Water Characteristics

Odor	Sewage	Musky	Chemical	None	Other
Color	Clear	Green	Gray	Milky	Other
Bottom Deposit	Sludge	Solids	Fine Sed.	None	Other
Surface Deposit	Oil	Scum	Foam	None	Other

**Data Sheet C: Cross-Sectional Depth Measurements (for estimation of median depth)**  
**(Median Depth Shown in Bold)**

Site # 1

Mark # 24

0140\_Youngs Creek\_Boone

	Depth (m)
<b>Transect 1</b>	0.00
Substrate:	0.50
cobble	0.00
Water Clarity:	0.00
cloudy	0.50
Channel Feature:	0.10
riffle	0.20
Channel Width:	0.15
7.00	0.20
<b>0.15</b>	0.15
<b>Transect 2</b>	0.50
Substrate:	0.10
gravel	0.10
Water Clarity:	0.00
cloudy	0.00
Channel Feature:	0.00
riffle	0.50
Channel Width:	0.50
12.00	0.50
<b>0.13</b>	0.15
<b>Transect 3</b>	0.10
Substrate:	0.25
cobble/silt	0.50
Water Clarity:	0.00
cloudy	0.10
Channel Feature:	0.25
pool	0.35
Channel Width:	0.35
12.00	0.35
<b>0.28</b>	0.30
<b>Transect 4</b>	0.25
Substrate:	0.35
cobble/silt	0.25
Water Clarity:	0.10
cloudy	0.50
Channel Feature:	0.10
pool	0.00
Channel Width:	0.00
15.00	0.50
<b>0.18</b>	0.10

	Depth (m)
<b>Transect 5</b>	0.00
Substrate:	0.50
cobble/silt	0.15
Water Clarity:	0.25
cloudy	0.50
Channel Feature:	0.55
pool	0.55
Channel Width:	0.45
10.00	0.40
<b>0.43</b>	0.40
<b>Transect 6</b>	0.00
Substrate:	0.10
gravel/silt	0.15
Water Clarity:	0.30
cloudy	0.35
Channel Feature:	0.40
pool	0.40
Channel Width:	0.35
10.00	0.40
<b>0.33</b>	0.30
<b>Transect 7</b>	0.15
Substrate:	0.20
gravel/silt	0.10
Water Clarity:	0.50
cloudy	0.00
Channel Feature:	0.00
pool	0.00
Channel Width:	0.00
15.00	0.10
<b>0.10</b>	0.20
<b>Transect 8</b>	0.50
Substrate:	0.50
gravel/silt	0.50
Water Clarity:	0.50
cloudy	0.00
Channel Feature:	0.10
riffle	0.50
Channel Width:	0.15
10.00	0.10
<b>0.33</b>	0.10

	Depth (m)
<b>Transect 9</b>	0.10
Substrate:	0.15
gravel/silt	0.15
Water Clarity:	0.15
cloudy	0.25
Channel Feature:	0.30
pool	0.25
Channel Width:	0.20
6.00	0.10
<b>0.18</b>	0.50
<b>Transect 10</b>	0.10
Substrate:	0.30
gravel/silt	0.40
Water Clarity:	0.40
cloudy	0.15
Channel Feature:	0.25
pool	0.30
Channel Width:	0.40
17.00	0.25
<b>0.28</b>	0.20
<b>Transect 11</b>	0.10
Substrate:	0.40
gravel/silt	0.65
Water Clarity:	0.55
cloudy	0.30
Channel Feature:	0.30
pool	0.25
Channel Width:	0.25
17.00	0.35
<b>0.30</b>	0.30
<b>Site Median</b>	<b>Site Maximum</b>
<b>0.25</b>	<b>0.65</b>

**Field Data Sheets for Recreational Use Stream Surveys**  
**Data Sheet B - Site Characterization**  
**(must be completed for each site)**

WBID 140  
 Site # 2

Date and Time:  
 5-29-07 4:55pm

Current Weather Conditions  
 cloudy

Weather Conditions for Past 10 days:

Drought Conditions? No

Site Location (e.g. road crossing)  
 395 crossing

GPS Mark:  
 25

Upstream Photo  
 4

Downstream Photo  
 5

**Uses Observed (Uses actually observed at time of survey) Circle**

Swimming	Skin Diving	SCUBA diving	Tubing
Water Skiing	Wind Surfing	Kayaking	Boating
Wading	Rafting	Hunting	Trapping
Fishing	<b>None of the Above</b>	Other	

**Surrounding Conditions**

City/county parks	Playgrounds	MDC conservation lands	Urban areas
Campgrounds	Boating accesses	State parks	National Forests
Nature trails	Stairs/walkway	No trespass sign	Fence
Steep slopes	<b>None of the Above</b>	Other	

**Indications of Human Use**

Roads	Rope swings	Foot paths/prints	Dock/platform
Livestock Watering	RV/ATV Tracks	Camping Sites	Fire pit/ring
NPDES Discharge	Fishing Tackle	Other:	<b>None of the Above</b>

WBID # 140 Site # 2  
Mark # 25 Dissolved Oxygen (ppm) 10  
Upstream Views Physical Dimensions: Is there any water present at this view?

y  
If so, is there an obvious current?  
y

Select one of the following channel features:

	% of Channel Feature			
Riffle				
Run				
Pool	100			

Downstream View's Physical Dimensions: Is there any water present at this view?

If so, is there an obvious current?


Substrate:

% Cobble 20	%Gravel 40	% Sand	%Silt 40
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% Mud/Clay	% Bedrock
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Aquatic Vegetation: (Note amount of vegetation or algal growth at the assessment site)

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#### Water Characteristics

Odor	Sewage	Musky	Chemical	<b>None</b>	Other
Color	Clear	<b>Green</b>	Gray	Milky	Other
Bottom Deposit	Sludge	Solids	Fine Sed.	None	Other
Surface Deposit	Oil	Scum	<b>Foam</b>	None	Other



**Data Sheet C: Cross-Sectional Depth Measurements (for estimation of median depth)**  
**(Median Depth Shown in Bold)**

Site#2

Mark # 25

0140\_Youngs Creek\_Boone

	Depth (m)
<b>Transect 1</b>	0.15
Substrate:	0.40
gravel/silt	0.50
Water Clarity:	0.55
murky	0.65
Channel Feature:	0.65
pool	0.55
Channel Width:	0.50
18.00	0.50
<b>0.50</b>	0.40
<b>Transect 2</b>	0.30
Substrate:	0.35
gravel/silt	0.40
Water Clarity:	0.40
murky	0.50
Channel Feature:	0.50
pool	0.40
Channel Width:	0.30
18.00	0.25
<b>0.38</b>	0.20
<b>Transect 3</b>	0.20
Substrate:	0.30
gravel/silt	0.35
Water Clarity:	0.40
murky	0.50
Channel Feature:	0.50
pool	0.50
Channel Width:	0.45
18.00	0.40
<b>0.40</b>	0.40
<b>Transect 4</b>	0.15
Substrate:	0.30
gravel/silt	0.30
Water Clarity:	0.40
murky	0.40
Channel Feature:	0.45
pool	0.35
Channel Width:	0.45
18.00	0.45
<b>0.40</b>	0.40

	Depth (m)
<b>Transect 5</b>	0.20
Substrate:	0.40
gravel/silt/cobble	0.30
Water Clarity:	0.40
murky	0.50
Channel Feature:	0.30
pool	0.40
Channel Width:	0.50
18.00	0.60
<b>0.40</b>	0.40
<b>Transect 6</b>	0.30
Substrate:	0.40
gravel/cobble	0.50
Water Clarity:	0.45
murky	0.45
Channel Feature:	0.45
pool	0.40
Channel Width:	0.45
18.00	0.25
<b>0.45</b>	0.50
<b>Transect 7</b>	0.85
Substrate:	0.75
gravel/silt	1.00
Water Clarity:	1.00
murky	1.00
Channel Feature:	1.00
pool	0.80
Channel Width:	0.60
18.00	0.60
<b>0.83</b>	0.55
<b>Transect 8</b>	1.00
Substrate:	1.00
gravel/silt	1.00
Water Clarity:	0.85
murky	0.75
Channel Feature:	0.80
pool	0.65
Channel Width:	0.60
18.00	0.50
<b>0.78</b>	0.30

	Depth (m)
<b>Transect 9</b>	0.50
Substrate:	0.35
gravel/silt	0.50
Water Clarity:	0.50
murky	0.45
Channel Feature:	0.40
pool	0.30
Channel Width:	0.20
7.00	0.10
<b>0.43</b>	0.50
<b>Transect 10</b>	0.00
Substrate:	0.50
gravel/silt	0.20
Water Clarity:	0.20
murky	0.35
Channel Feature:	0.45
pool	0.40
Channel Width:	0.50
5.00	0.45
<b>0.40</b>	0.40
<b>Transect 11</b>	0.00
Substrate:	0.15
gravel/silt	0.25
Water Clarity:	0.30
murky	0.30
Channel Feature:	0.30
pool	0.30
Channel Width:	0.30
6.00	0.25
<b>0.28</b>	0.10

<b>Site Median</b>	<b>Site Maximum</b>
<b>0.40</b>	<b>1.00</b>

**Field Data Sheets for Recreational Use Stream Surveys**  
**Data Sheet B - Site Characterization**  
**(must be completed for each site)**

WBID 140  
 Site # 3

Date and Time:  
 5-29-07 5:37pm  
 Current Weather Conditions  
 cloudy  
 Weather Conditions for Past 10 days:

Drought Conditions? No

Site Location (e.g. road crossing)  
 15 rd. crossing

GPS Mark:  
 27

Upstream Photo 7 Downstream Photo 8

**Uses Observed (Uses actually observed at time of survey) Circle**

Swimming	Skin Diving	SCUBA diving	Tubing
Water Skiing	Wind Surfing	Kayaking	Boating
Wading	Rafting	Hunting	Trapping
Fishing	<b>None of the Above</b>	Other	

**Surrounding Conditions**

City/county parks	Playgrounds	MDC conservation lands	Urban areas
Campgrounds	Boating accesses	State parks	National Forests
Nature trails	Stairs/walkway	No trespass sign	Fence
Steep slopes	<b>None of the Above</b>	Other	

**Indications of Human Use**

Roads	Rope swings	Foot paths/prints	Dock/platform
Livestock Watering	RV/ATV Tracks	Camping Sites	Fire pit/ring
NPDES Discharge	Fishing Tackle	Other:	<b>None of the Above</b>

**WBID #** 140      **Site #** 3  
**Mark #** 27      **Dissolved Oxygen (ppm)** 7.3  
**Upstream Views Physical Dimensions:** Is there any water present at this view?

y  
 If so, is there an obvious current?  
 y

**Select one of the following channel features:**

	% of Channel Feature				
Riffle	15				
Run	0				
Pool	85				

**Downstream View's Physical Dimensions:** Is there any water present at this view?

y  
 If so, is there an obvious current?  
 y


Substrate:

% Cobble 45	% Gravel 10	% Sand	% Silt 15
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% Mud/Clay	% Bedrock 30
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**Aquatic Vegetation: (Note amount of vegetation or algal growth at the assessment site)**

### Water Characteristics

Odor	Sewage	Musky	Chemical	<b>None</b>	Other
Color	Clear	<b>Green</b>	Gray	Milky	Other
Bottom Deposit	Sludge	Solids	Fine Sed.	<b>None</b>	Other
Surface Deposit	Oil	Scum	<b>Foam</b>	None	Other

**Data Sheet C: Cross-Sectional Depth Measurements (for estimation of median depth)**  
**(Median Depth Shown in Bold)**

Site # 3

Mark # 27

0140\_Youngs Creek\_Boone

	Depth (m)
<b>Transect 1</b>	0.50
Substrate:	0.50
cobble	0.50
Water Clarity:	0.50
clear	0.10
Channel Feature:	0.10
riffle	0.15
Channel Width:	0.50
8.00	0.50
<b>0.50</b>	0.00
<b>Transect 2</b>	0.00
Substrate:	0.50
cobble/gravel	0.15
Water Clarity:	0.20
clear	0.25
Channel Feature:	0.15
pool	0.15
Channel Width:	0.10
10.00	0.50
<b>0.15</b>	0.00
<b>Transect 3</b>	0.00
Substrate:	0.15
cobble/gravel	0.15
Water Clarity:	0.25
cloudy	0.40
Channel Feature:	0.40
pool	0.60
Channel Width:	0.60
12.00	0.70
<b>0.40</b>	0.45
<b>Transect 4</b>	0.15
Substrate:	0.55
bedrock	0.55
Water Clarity:	0.55
cloudy	0.60
Channel Feature:	0.55
pool	0.55
Channel Width:	0.45
12.00	0.35
<b>0.55</b>	0.20

	Depth (m)
<b>Transect 5</b>	0.50
Substrate:	0.20
bedrock/silt/gravel	0.30
Water Clarity:	0.40
cludy	0.50
Channel Feature:	0.55
pool	0.70
Channel Width:	0.65
12.00	0.55
<b>0.50</b>	0.30
<b>Transect 6</b>	0.35
Substrate:	0.60
bedrock/silt/gravel	0.60
Water Clarity:	0.80
cloudy	0.85
Channel Feature:	0.80
pool	0.55
Channel Width:	0.35
12.00	0.30
<b>0.58</b>	0.20
<b>Transect 7</b>	0.10
Substrate:	0.15
bedrock/silt/gravel	0.10
Water Clarity:	0.20
cloudy	0.30
Channel Feature:	0.40
pool	0.60
Channel Width:	0.70
15.00	0.70
<b>0.33</b>	0.35
<b>Transect 8</b>	0.35
Substrate:	0.80
bedrock/silt/gravel	0.75
Water Clarity:	0.70
cloudy	0.50
Channel Feature:	0.40
pool	0.35
Channel Width:	0.30
12.00	0.15
<b>0.45</b>	0.50

	Depth (m)
<b>Transect 9</b>	0.00
Substrate:	0.50
bedrock/gravel/silt	0.10
Water Clarity:	0.20
cloudy	0.30
Channel Feature:	0.45
pool	0.60
Channel Width:	0.55
12.00	0.60
<b>0.43</b>	0.40
<b>Transect 10</b>	0.30
Substrate:	0.50
bedrock/gravel/silt	0.55
Water Clarity:	0.50
cloudy	0.50
Channel Feature:	0.50
pool	0.35
Channel Width:	0.25
8.00	0.20
<b>0.43</b>	0.10
<b>Transect 11</b>	0.00
Substrate:	0.00
cobble	0.10
Water Clarity:	0.10
cloudy	0.15
Channel Feature:	0.15
pool	0.15
Channel Width:	0.10
8.00	0.10
<b>0.10</b>	0.50

<b>Site Median</b>	<b>Site Maximum</b>
<b>0.40</b>	<b>0.85</b>

**Field Data Sheets for Recreational Use Stream Surveys**  
**Data Sheet B - Site Characterization**  
**(must be completed for each site)**

WBID 140  
 Site # 4

Date and Time: 5-29-07 6:30pm

Current Weather Conditions  
 cloudy

Weather Conditions for Past 10 days:

Drought Conditions? No

Site Location (e.g. road crossing)  
 373 crossing

GPS Mark:  
 28

Upstream Photo 10 Downstream Photo 9

**Uses Observed (Uses actually observed at time of survey) Circle**

Swimming	Skin Diving	SCUBA diving	Tubing
Water Skiing	Wind Surfing	Kayaking	Boating
Wading	Rafting	Hunting	Trapping
Fishing	<b>None of the Above</b>	Other	

**Surrounding Conditions**

City/county parks	Playgrounds	MDC conservation lands	Urban areas
Campgrounds	Boating accesses	State parks	National Forests
Nature trails	Stairs/walkway	No trespass sign	Fence
Steep slopes	<b>None of the Above</b>	Other	

**Indications of Human Use**

Roads	Rope swings	Foot paths/prints	Dock/platform
Livestock Watering	RV/ATV Tracks	Camping Sites	Fire pit/ring
NPDES Discharge	Fishing Tackle	Other:	<b>None of the Above</b>

**WBID #** 140      **Site #** 4  
**Mark #** 28      **Dissolved Oxygen (ppm)** 10.2  
**Upstream Views Physical Dimensions:** Is there any water present at this view?

y  
 If so, is there an obvious current?  
 y

**Select one of the following channel features:**

	% of Channel Feature				
Riffle	5				
Run	0				
Pool	95				

**Downstream View's Physical Dimensions:** Is there any water present at this view?

y  
 If so, is there an obvious current?  
 y


Substrate:

% Cobble 90	% Gravel 10	% Sand	% Silt
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% Mud/Clay	% Bedrock
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**Aquatic Vegetation: (Note amount of vegetation or algal growth at the assessment site)**

### Water Characteristics

Odor	Sewage	Musky	Chemical	<b>None</b>	Other
Color	Clear	<b>Green</b>	Gray	Milky	Other
Bottom Deposit	Sludge	Solids	Fine Sed.	None	Other
Surface Deposit	Oil	Scum	<b>Foam</b>	None	Other

**Data Sheet C: Cross-Sectional Depth Measurements (for estimation of median depth)**  
**(Median Depth Shown in Bold)**

Site # 4

Mark # 28

0140\_Youngs Creek\_Boone

	Depth (m)
<b>Transect 1</b>	0.40
Substrate:	0.80
cobble/gravel	1.00
Water Clarity:	1.00
murky	1.00
Channel Feature:	1.00
pool	1.00
Channel Width:	1.00
8.00	1.00
<b>1.00</b>	<b>1.00</b>
<b>Transect 2</b>	0.55
Substrate:	0.95
cobble/gravel	1.00
Water Clarity:	1.00
murky	1.00
Channel Feature:	1.00
pool	1.00
Channel Width:	1.00
7.00	1.00
<b>1.00</b>	<b>0.85</b>
<b>Transect 3</b>	0.35
Substrate:	1.00
cobble/gravel	1.00
Water Clarity:	1.00
murky	1.00
Channel Feature:	1.00
pool	1.00
Channel Width:	1.00
8.00	1.00
<b>1.00</b>	<b>1.00</b>
<b>Transect 4</b>	0.40
Substrate:	0.75
gravel	1.00
Water Clarity:	1.00
murky	1.00
Channel Feature:	1.00
pool	1.00
Channel Width:	1.00
8.00	0.95
<b>1.00</b>	<b>0.70</b>

	Depth (m)
<b>Transect 5</b>	0.50
Substrate:	0.35
cobble/gravel	0.60
Water Clarity:	0.85
murky	1.00
Channel Feature:	1.00
pool	1.00
Channel Width:	1.00
7.00	0.70
<b>0.78</b>	<b>0.65</b>
<b>Transect 6</b>	0.50
Substrate:	1.00
cobble/gravel	1.00
Water Clarity:	1.00
murky	1.00
Channel Feature:	1.00
pool	1.00
Channel Width:	1.00
8.00	1.00
<b>1.00</b>	<b>1.00</b>
<b>Transect 7</b>	0.00
Substrate:	0.50
cobble/gravel	0.10
Water Clarity:	0.15
murky	0.10
Channel Feature:	0.15
rifle	0.50
Channel Width:	0.20
6.00	0.15
<b>0.15</b>	<b>0.50</b>
<b>Transect 8</b>	0.50
Substrate:	0.50
gravel/cobble	0.15
Water Clarity:	0.20
clear	0.25
Channel Feature:	0.10
rifle	0.15
Channel Width:	0.20
7.00	0.50
<b>0.23</b>	<b>0.50</b>

	Depth (m)
<b>Transect 9</b>	0.40
Substrate:	0.70
cobble	0.85
Water Clarity:	1.00
murky	1.00
Channel Feature:	1.00
pool	1.00
Channel Width:	1.00
8.00	1.00
<b>1.00</b>	<b>1.00</b>
<b>Transect 10</b>	0.55
Substrate:	0.85
cobble	1.00
Water Clarity:	1.00
murky	1.00
Channel Feature:	1.00
pool	1.00
Channel Width:	1.00
8.00	1.00
<b>1.00</b>	<b>0.85</b>
<b>Transect 11</b>	0.70
Substrate:	1.00
cobble	1.00
Water Clarity:	1.00
murky	1.00
Channel Feature:	1.00
pool	1.00
Channel Width:	1.00
9.00	1.00
<b>1.00</b>	<b>1.00</b>

<b>Site Median</b>	<b>Site Maximum</b>
<b>1.00</b>	<b>1.00</b>

**Field Data Sheets for Recreational Use Stream Surveys**  
**Data Sheet B - Site Characterization**  
**(must be completed for each site)**

WBID 140  
 Site # 5

Date and Time:  
 6:55pm 5-29-07  
 Current Weather Conditions  
 cloudy with drizzle  
 Weather Conditions for Past 10 days:

Drought Conditions? No

Site Location (e.g. road crossing)  
 rd. crossing 357  
 GPS Mark: 29

Upstream Photo 12 Downstream Photo 11

**Uses Observed (Uses actually observed at time of survey) Circle**

Swimming	Skin Diving	SCUBA diving	Tubing
Water Skiing	Wind Surfing	Kayaking	Boating
Wading	Rafting	Hunting	Trapping
Fishing	<b>None of the Above</b>	Other	

**Surrounding Conditions**

City/county parks	Playgrounds	MDC conservation lands	Urban areas
Campgrounds	Boating accesses	State parks	National Forests
Nature trails	Stairs/walkway	No trespass sign	Fence
Steep slopes	<b>None of the Above</b>	Other	

**Indications of Human Use**

<b>Roads</b>	Rope swings	Foot paths/prints	Dock/platform
Livestock Watering	RV/ATV Tracks	Camping Sites	Fire pit/ring
NPDES Discharge	Fishing Tackle	Other:	



**WBID #** 140      **Site #** 5  
**Mark #** 29      **Dissolved Oxygen (ppm)** 11.4  
**Upstream Views Physical Dimensions:** Is there any water present at this view?

y  
 If so, is there an obvious current?  
 y

**Select one of the following channel features:**

	% of Channel Feature				
Riffle	30				
Run	10				
Pool	60				

**Downstream View's Physical Dimensions:** Is there any water present at this view?

y  
 If so, is there an obvious current?  
 y


Substrate:

% Cobble	% Gravel 100	% Sand	% Silt
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% Mud/Clay	% Bedrock
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**Aquatic Vegetation: (Note amount of vegetation or algal growth at the assessment site)**

approx. 90% algal coverage

### Water Characteristics

Odor	Sewage	Musky	Chemical	<b>None</b>	Other
Color	Clear	<b>Green</b>	Gray	Milky	Other
Bottom Deposit	Sludge	Solids	Fine Sed.	<b>None</b>	Other
Surface Deposit	<b>Oil</b>	Scum	<b>Foam</b>	None	Other

**Data Sheet C: Cross-Sectional Depth Measurements (for estimation of median depth)**  
**(Median Depth Shown in Bold)**

Site # 5

Mark #29

0140\_Youngs Creek\_Boone

	Depth (m)		Depth (m)		Depth (m)
<b>Transect 1</b>	0.00	<b>Transect 5</b>	0.00	<b>Transect 9</b>	0.50
Substrate:	0.50	Substrate:	0.10	Substrate:	0.20
gravel	0.10	gravel	0.00	gravel	0.40
Water Clarity:	0.15	Water Clarity:	0.00	Water Clarity:	0.55
murky	0.20	murky	0.00	murky	0.80
Channel Feature:	0.25	Channel Feature:	0.50	Channel Feature:	0.90
pool	0.20	rifle	0.00	pool	0.90
Channel Width:	0.30	Channel Width:	0.10	Channel Width:	0.90
6.00	0.20	8.00	0.20	6.00	0.90
<b>0.20</b>	0.15	<b>0.05</b>	0.10	<b>0.85</b>	0.95
<b>Transect 2</b>	0.00	<b>Transect 6</b>	0.00	<b>Transect 10</b>	0.00
Substrate:	0.50	Substrate:	0.10	Substrate:	0.10
gravel	0.00	gravel	0.25	gravel	0.15
Water Clarity:	0.00	Water Clarity:	0.30	Water Clarity:	0.20
murky	0.10	murky	0.35	murky	0.30
Channel Feature:	0.20	Channel Feature:	0.35	Channel Feature:	0.35
run	0.30	run	0.40	pool	0.35
Channel Width:	0.35	Channel Width:	0.35	Channel Width:	0.30
7.00	0.25	6.00	0.30	7.00	0.25
<b>0.18</b>	0.15	<b>0.30</b>	0.10	<b>0.23</b>	0.20
<b>Transect 3</b>	0.00	<b>Transect 7</b>	0.00	<b>Transect 11</b>	0.00
Substrate:	0.00	Substrate:	0.50	Substrate:	0.00
gravel	0.00	gravel	0.00	gravel	0.50
Water Clarity:	0.00	Water Clarity:	0.50	Water Clarity:	0.15
murky	0.00	murky	0.10	clear	0.10
Channel Feature:	0.10	Channel Feature:	0.25	Channel Feature:	0.20
rifle	0.25	pool	0.35	rifle	0.20
Channel Width:	0.20	Channel Width:	0.45	Channel Width:	0.30
8.00	0.10	8.00	0.50	8.00	0.20
<b>0.00</b>	0.00	<b>0.38</b>	0.40	<b>0.20</b>	0.50
<b>Transect 4</b>	0.10	<b>Transect 8</b>	0.00		
Substrate:	0.10	Substrate:	0.15	<b>Site Median</b>	<b>Site Maximum</b>
gravel	0.10	gravel	0.40	<b>0.20</b>	<b>1.00</b>
Water Clarity:	0.10	Water Clarity:	0.70		
murky	0.50	murky	0.90		
Channel Feature:	0.10	Channel Feature:	1.00		
rifle	0.15	pool	1.00		
Channel Width:	0.15	Channel Width:	1.00		
7.00	0.20	6.00	1.00		
<b>0.10</b>	0.10	<b>0.95</b>	1.00		

**Field Data Sheets for Recreational Use Stream Surveys**  
**Data Sheet B - Site Characterization**  
(must be completed for each site)

WBID 104  
Site # 6 *Above Base Flow*

Date and Time: 7:25pm 5-29-07

Current Weather Conditions  
cloudy/sprinkles

Weather Conditions for Past 10 days:

Drought Conditions? No

Site Location (e.g. road crossing)  
2 rd. crossing

GPS Mark:  
30

Upstream Photo 15 Downstream Photo 16

**Uses Observed (Uses actually observed at time of survey) Circle**

Swimming	Skin Diving	SCUBA diving	Tubing
Water Skiing	Wind Surfing	Kayaking	Boating
Wading	Rafting	Hunting	Trapping
Fishing	<i>None of the Above</i>	Other	

**Surrounding Conditions**

City/county parks	Playgrounds	MDC conservation lands	Urban areas
Campgrounds	Boating accesses	State parks	National Forests
Nature trails	Stairs/walkway	No trespass sign	Fence
Steep slopes	<i>None of the Above</i>	Other	

**Indications of Human Use**

Roads	Rope swings	Foot paths/prints	Dock/platform
Livestock Watering	RV/ATV Tracks	Camping Sites	Fire pit/ring
NPDES Discharge	Fishing Tackle	Other:	<i>None of the Above</i>

**WBID #** 104

**Site #**

**Mark #**

**Dissolved Oxygen (ppm)**

**Upstream Views Physical Dimensions:** Is there any water present at this view?

If so, is there an obvious current?

**Select one of the following channel features:**

% of Channel Feature

Riffle					
Run					
Pool					

**Downstream View's Physical Dimensions:** Is there any water present at this view?

If so, is there an obvious current?


Substrate:

% Cobble	% Gravel	% Sand	% Silt
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% Mud/Clay	% Bedrock
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**Aquatic Vegetation: (Note amount of vegetation or algal growth at the assessment site)**

<p style="text-align: center; color: red;">ABOVE BASE FLOW</p>
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**Water Characteristics**

Odor	Sewage	Musky	Chemical	None	Other
Color	Clear	Green	Gray	Milky	Other
Bottom Deposit	Sludge	Solids	Fine Sed.	None	Other
Surface Deposit	Oil	Scum	Foam	None	Other

**Data Sheet C: Cross-Sectional Depth Measurements (for estimation of median depth)**  
**(Median Depth Shown in Bold)**

Site # 6

Mark #

0140\_Youngs Creek\_Boone

Above Base Flow

	Depth (m)		Depth (m)		Depth (m)
<b>Transect 1</b>		<b>Transect 5</b>		<b>Transect 9</b>	
Substrate:		Substrate:		Substrate:	
Water Clarity:		Water Clarity:		Water Clarity:	
Channel Feature:		Channel Feature:		Channel Feature:	
Channel Width:		Channel Width:		Channel Width:	
<b>#NUM!</b>		<b>#NUM!</b>		<b>#NUM!</b>	
<b>Transect 2</b>		<b>Transect 6</b>		<b>Transect 10</b>	
Substrate:		Substrate:		Substrate:	
Water Clarity:		Water Clarity:		Water Clarity:	
Channel Feature:		Channel Feature:		Channel Feature:	
Channel Width:		Channel Width:		Channel Width:	
<b>#NUM!</b>		<b>#NUM!</b>		<b>#NUM!</b>	
<b>Transect 3</b>		<b>Transect 7</b>		<b>Transect 11</b>	
Substrate:		Substrate:		Substrate:	
Water Clarity:		Water Clarity:		Water Clarity:	
Channel Feature:		Channel Feature:		Channel Feature:	
Channel Width:		Channel Width:		Channel Width:	
<b>#NUM!</b>		<b>#NUM!</b>		<b>#NUM!</b>	
<b>Transect 4</b>		<b>Transect 8</b>			
Substrate:		Substrate:			
Water Clarity:		Water Clarity:			
Channel Feature:		Channel Feature:			
Channel Width:		Channel Width:			
<b>#NUM!</b>		<b>#NUM!</b>			



**Site 1**

**Downstream**

**Photo 1**

**WBID# 0140**



**Site 1**

**Upstream**

**Photo 2**

**WBID# 0140**





Site 2

Downstream

Photo 5

WBID# 0140



Site 2

Upstream

Photo 4

WBID# 0140





**Site 3**

**Downstream**

**Photo 8**

**WBID# 0140**



**Site 3**

**Upstream**

**Photo 7**

**WBID# 0140**





**Site 4**

**Downstream**

**Photo 9**

**WBID# 0140**



**Site 4**

**Upstream**

**Photo 10**

**WBID# 0140**





Site 5

Downstream

Photo 11

WBID# 0140



Site 5

Upstream

Photo 12

WBID# 0140





**Site 6**

**Downstream- Above Base Flow**

**Photo 16**

**WBID# 0140**



**Site 6**

**Upstream- Above Base Flow**

**Photo 15**

**WBID# 0140**



**WBID# 0140—Young's Creek**



**Site# 1 Photo ID# 3, Road and hunting stand**



**Site# 2 Photo ID# 6, Pipe entering creek**